

**Notice of Allowability**

Application No.

10/730,907

Applicant(s)

OKAWAHARA ET AL.

Examiner

Allen Wong

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/3/07.
2. ☒ The allowed claim(s) is/are 3-5, 8 and 9, renumbered as claims 1-5.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
- ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

- ☐ Notice of Informal Patent Application
- ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
- ☐ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other \_\_\_\_\_

  
Allen Wong  
Primary Examiner  
Art Unit 2621

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. Claims 3-5, 8 and 9 are allowed over the prior art.
2. The following is an examiner's statement of reasons for allowance: The prior art does not specifically disclose the combination of limitations of claim 3: a video decoding and displaying apparatus, comprising: a managing unit that partitions a frame memory into a plurality of sectors, wherein the frame memory stores decoded video data of a frame not used as a predicted video, the decoded video data including a top-field data and a bottom-field data; a write control unit that writes the top-field data and the bottom-field data of the decoded video data into separate free sectors of the frame memory; and a read control unit that, at the time of displaying decoded video data by reading it from the frame memory, simultaneously releases, during a last display field period of a display video, the sector that stores the top-field data and the sector that stores the bottom-field data when the sector capacity of the frame memory is equal to or greater than that required for one frame of video data to be displayed, wherein the decoded video data includes two video data of different picture sizes, and also when the sector capacity of the memory frame is less than that required for one frame of the video data of a larger picture size, the read control unit releases one corresponding sector out of a sector that stores top-field data which has been read and a sector which stores bottom-field data during each display field period, in a reading and a displaying of the video data of the larger picture size, and simultaneously releases the sector that stores top-

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field data and the sector that stores bottom-field data during a last display field period, in a reading and a displaying of the video data of a smaller picture size.

Similarly claims 5, 8 and 9 are patentable for similar reasons as claim 3.

Also, the prior art does not specifically disclose the combination of limitations as disclosed in claim 4: a video decoding and displaying apparatus, comprising: a managing unit that partitions a frame memory into a plurality of sectors, wherein the frame memory stores decoded video data of a frame not used as a predicted video, the decoded video data including a top-field data and a bottom-field data; a write control unit that writes the top-field data and the bottom-field data of the decoded video data into separate free sectors of the frame memory; and a read control unit that, at the time of displaying decoded video data by reading it from the frame memory, simultaneously releases, during a last display field period of a display video, the sector that stores the top-field data and the sector that stores the bottom-field data when the sector capacity of the frame memory is equal to or greater than that required for one frame of video data to be displayed, wherein the read control unit executes the release upon completing the reading of data corresponding to a number of written lines, when a value obtained by dividing a vertical pixel size of the video data by the number of storage lines of sectors that store the video data of a displayed frame becomes an odd number.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

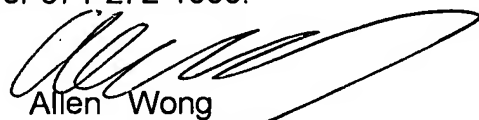
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***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (571) 272-7341. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Allen Wong  
Primary Examiner  
Art Unit 2621

AW  
10/24/07